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	PAT. NO.	Title
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3	6,901,156	Method, system and computer readable medium for an intelligent search workstation for computer assisted interpretation of medical images
4	6,701,296	Strain-sensing goniometers, systems, and recognition algorithms
5	6,603,491	System and methods for controlling automatic scrolling of information on a display or screen
6	6,421,064	System and methods for controlling automatic scrolling of information on a display screen
7	6,408,227	System and method for controlling effluents in treatment systems
8	6,351,273	System and methods for controlling automatic scrolling of information on a display or screen
9	6,278,799	Hierarchical data matrix pattern recognition system
10	6,226,408	Unsupervised identification of nonlinear data cluster in multidimensional data
11	6,212,509	Visualization and self-organization of multidimensional data through equalized orthogonal mapping
12	6,134,537	Visualization and self organization of multidimensional data through equalized orthogonal mapping
13	6,035,274	Strain-sensing goniometers, systems and recognition algorithms
14	6,035,057	Hierarchical data matrix pattern recognition and identification system
15	5,930,754	Method, device and article of manufacture for neural-network based orthography-phonetics transformation

16 5,842,194 Method of recognizing images of faces or general images using fuzzy combination of multiple resolutions
17 5,835,901 Perceptive system including a neural network
18 5,809,490 Apparatus and method for selecting a working data set for model development
19 5,802,507 Method for constructing a neural device for classification of objects
20 5,687,082 Methods and apparatus for performing combustion analysis in an internal combustion engine utilizing ignition voltage analysis
21 5,675,497 Method for monitoring an electric motor and detecting a departure from normal operation
22 5,649,067 Neural device and method of constructing the device
23 5,642,431 Network-based system and method for detection of faces and the like
24 5,640,103 Radial basis function neural network autoassociator and method for induction motor monitoring
25 5,590,218 Unsupervised neural network classification with back propagation
26 5,574,387 Radial basis function neural network autoassociator and method for induction motor monitoring
27 5,461,698 Method for modelling similarity function using neural network
28 5,444,796 Method for unsupervised neural network classification with back propagation
29 5,442,729 Strain-sensing goniometers, systems and recognition algorithms
30 5,280,265 Strain-sensing goniometers, systems and recognition algorithms

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IEE CNF	IEE Conference Proceeding
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1. **Pattern recognition in the prediction of protein structural class**
Metfessel, B.A.; Saurugger, P.N.;
System Sciences, 1993, Proceeding of the Twenty-Sixth Hawaii International Conference on
Volume i, 5-8 Jan 1993 Page(s):679 - 688 vol.1
Digital Object Identifier 10.1109/HICSS.1993.270673
AbstractPlus | Full Text: PDF(889 KB) IEEE CNF

2. **The BP neural networks with data clustering enhancement-an emerging optimization tool**
Arslan, M.A.;
Intelligent Control, 1996., Proceedings of the 1996 IEEE International Symposium on
15-18 Sept. 1996 Page(s):188 - 193
Digital Object Identifier 10.1109/ISIC.1996.556199
AbstractPlus | Full Text: PDF(492 KB) IEEE CNF

3. **Classification of multispectral images using BP-neural network classifier-input codings ass**
Chong, C.C.; Jia, J.C.; Mital, D.P.;
TENCON '94. IEEE Region 10's Ninth Annual International Conference. Theme: 'Frontiers of Comp
Proceedings of 1994
22-26 Aug. 1994 Page(s):867 - 871 vol.2
Digital Object Identifier 10.1109/TENCON.1994.369187
AbstractPlus | Full Text: PDF(380 KB) IEEE CNF

4. **A neural network which learns decision boundaries with nonlinear clustering**
Chu, Y.C.; Klassen, M.;
Neural Networks, 1991. 1991 IEEE International Joint Conference on
18-21 Nov. 1991 Page(s):813 - 820 vol.1
Digital Object Identifier 10.1109/IJCNN.1991.170501
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1 Machine learning in DNA microarray analysis for cancer classification
Sung-Bae Cho, Hong-Hee Won
January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19 CRPITS '03**
Full text available: pdf(405.54 KB) Additional Information: full citation, abstract, references, citings, index terms

The development of microarray technology has supplied a large volume of data to many fields. In particular, it has been applied to prediction and diagnosis of cancer, so that it expectedly helps us to exactly predict and diagnose cancer. To precisely classify cancer we have to select genes related to cancer because extracted genes from microarray have many noises. In this paper, we attempt to explore many features and classifiers using three benchmark datasets to systematically evaluate the perf ...

Keywords: KNN, MLP, SASOM, SVM, biological data mining, classification, ensemble classifier, feature selection, gene expression profile

2 Cluster ensembles --- a knowledge reuse framework for combining multiple partitions
Alexander Strehl, Joydeep Ghosh
March 2003 **The Journal of Machine Learning Research**, Volume 3
Full text available: pdf(842.50 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the problem of combining multiple partitionings of a set of objects into a single consolidated clustering *without* accessing the features or algorithms that determined these partitionings. We first identify several application scenarios for the resultant 'knowledge reuse' framework that we call *cluster ensembles*. The cluster ensemble problem is then formalized as a combinatorial optimization problem in terms of shared mutual information. In addition to a direct ...

Keywords: cluster analysis, clustering, consensus functions, ensemble, knowledge reuse, multi-learner systems, mutual information, partitioning, unsupervised learning

3 Supervised adaptive resonance networks
R. S. Baxter
May 1991 **Proceedings of the conference on Analysis of neural network applications**

Full text available: pdf(1.44 MB) Additional Information: full citation, references, index terms

4 Industry/government track papers: Effective localized regression for damage detection in large complex mechanical structures

Aleksandar Lazarevic, Ramdev Kanapady, Chandrika Kamath

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(597.35 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel data mining technique for the efficient damage detection within the large-scale complex mechanical structures. Every mechanical structure is defined by the set of finite elements that are called structure elements. Large-scale complex structures may have extremely large number of structure elements, and predicting the failure in every single element using the original set of natural frequencies as features is exceptionally time-consuming task. Traditional data m ...

Keywords: clustering, damage detection, localized regression, mechanical structures, structure elements

5 Visualizing content based relations in texts

Edgar Weippl

January 2001 **Australian Computer Science Communications , Proceedings of the 2nd Australasian conference on User interface AUIC '01**, Volume 23 Issue 5

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references

Publisher Site

Our goal is to efficiently visualize a medium sized hypertext database containing 500 - 20000 articles. The visualization technique we propose is an Information Landscape. Basically, the information landscape maps texts into a 2D plane so that related texts are placed next to each other. The hypertexts' location is calculated according to their content and not according to their links. Combining already published algorithms the clustering works very well. An important issue, however, is a well-d ...

Keywords: UIs/visualization for hypertext search and navigation, information visualization for IR, stemming/morphological analysis, text categorization, text clustering

6 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(524.41 KB) Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

7

Data mining of multidimensional remotely sensed images
Robert F. Cromp, William J. Campbell
December 1993 **Proceedings of the second international conference on Information and knowledge management**
Full text available: pdf(1.39 MB) Additional Information: full citation, references, citings, index terms

8 A sub Bayesian nearest prototype neural network with fuzzy interpretability for diagnosis problems
Saman Halgamuge, Christoph Grimm, Manfred Glesner
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Full text available: pdf(508.72 KB) Additional Information: full citation, references, citings, index terms

Keywords: Bayes classifier, fuzzy rules, neural networks, rule generation

9 Fuzzy clustering improves convergence of the backpropagation algorithm
Adel M. Abunawass, Opinderjit Singh Bhella, Min Ding, Weiqun Li
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Full text available: pdf(387.70 KB) Additional Information: full citation, references, index terms

Keywords: artificial intelligence, backpropagation, fuzzy clustering, fuzzy logic, neural networks

10 Contributed papers: Data-oriented methods for grapheme-to-phoneme conversion
Antal van den Bosch, Walter Daelemans
April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**
Full text available: pdf(898.83 KB) Publisher Site Additional Information: full citation, abstract, references, citings

It is traditionally assumed that various sources of linguistic knowledge and their interaction should be formalised in order to be able to convert words into their phonemic representations with reasonable accuracy. We show that using supervised learning techniques, based on a corpus of transcribed words, the same and even better performance can be achieved, without explicit modeling of linguistic knowledge.In this paper we present two instances of this approach. A first model implements a varian ...

11 Research track papers: Data mining in metric space: an empirical analysis of supervised learning performance criteria
Rich Caruana, Alexandru Niculescu-Mizil
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(267.16 KB) Additional Information: full citation, abstract, references, index terms

Many criteria can be used to evaluate the performance of supervised learning. Different criteria are appropriate in different settings, and it is not always clear which criteria to use. A further complication is that learning methods that perform well on one criterion may not perform well on other criteria. For example, SVMs and boosting are designed to optimize accuracy, whereas neural nets typically optimize squared error or cross entropy. We

conducted an empirical study using a variety of lea ...

Keywords: ROC, cross entropy, lift, metrics, performance evaluation, precision, recall, supervised learning

12 Magical thinking in data mining: lessons from CoIL challenge 2000

Charles Elkan

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(602.56 KB) Additional Information: full citation, abstract, references, citings, index terms

CoIL challenge 2000 was a supervised learning contest that attracted 43 entries. The authors of 29 entries later wrote explanations of their work. This paper discusses these reports and reaches three main conclusions. First, naive Bayesian classifiers remain competitive in practice: they were used by both the winning entry and the next best entry. Second, identifying feature interactions correctly is important for maximizing predictive accuracy: this was the difference between the winning classi ...

13 Bioinformatics (BIO): Comparing approaches to predict transmembrane domains in protein sequences

Paul Davidsson, Johan Hagelbäck, Kenny Svensson

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Full text available: pdf(271.98 KB) Additional Information: full citation, abstract, references, index terms

There are today several systems for predicting transmembrane domains in membrane protein sequences. As they are based on different classifiers as well as different pre- and post-processing techniques, it is very difficult to evaluate the performance of the particular classifier used. We have developed a system called MemMiC for predicting transmembrane domains in protein sequences with the possibility to choose between different approaches to pre- and post-processing as well as different classif ...

Keywords: classifiers, learning, protein sequences

14 Fuzzy RuleNet: an artificial neural network model for fuzzy classification

Nadine Tschichold-Gürman

April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: pdf(571.46 KB) Additional Information: full citation, references, index terms

15 Algorithmic transformations in the implementation of K- means clustering on reconfigurable hardware

Mike Estlick, Miriam Leeser, James Theiler, John J. Szymanski

February 2001 **Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays**

Full text available: pdf(255.95 KB) Additional Information: full citation, abstract, references, citings, index terms

In mapping the k-means algorithm to FPGA hardware, we examined algorithm level transforms that dramatically increased the achievable parallelism. We apply the k-means algorithm to multi-spectral and hyper-spectral images, which have tens to hundreds of channels per pixel of data. K-means is an iterative algorithm that assigns assigns to each pixel a label indicating which of K clusters the pixel belongs to.K-means is a common

solution to the segmentation of multi ...

16 Evaluating a class of distance-mapping algorithms for data mining and clustering
Jason Tsong-Li Wang, Xiong Wang, King-Ip Lin, Dennis Shasha, Bruce A. Shapiro, Kaizhong Zhang
August 1999 **Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(589.01 KB) Additional Information: full citation, references, citings, index terms

17 A fast algorithm for constructing sparse Euclidean spanners
Gautam Das, Giri Narasimhan
June 1994 **Proceedings of the tenth annual symposium on Computational geometry**
Full text available: pdf(705.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Let G=(V,E) be a n-vertex connected graph with positive edge weights. A subgraph G' is a t-spanner if for all u,v ∈ V, the distance between u and v in the subgraph is at most t times the corresponding distance in G. We design an O(nlog-

18 Real world applications: Nonlinear feature extraction using a neuro genetic hybrid
Yung-Keun Kwon, Byung-Ro Moon
June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**
Full text available: pdf(361.05 KB) Additional Information: full citation, abstract, references, index terms

Feature extraction is a process that extracts salient features from observed variables. It is considered a promising alternative to overcome the problems of weight and structure optimization in artificial neural networks. There were many nonlinear feature extraction methods using neural networks but they still have the same difficulties arisen from the fixed network topology. In this paper, we propose a novel combination of genetic algorithm and feedforward neural networks for nonlinear feature ...

Keywords: feature extraction, function approximation, neuro-genetic hybrid

19 Research track papers: Clustering time series from ARMA models with clipped data
A. J. Bagnall, G. J. Janacek
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(305.69 KB) Additional Information: full citation, abstract, references, index terms

Clustering time series is a problem that has applications in a wide variety of fields, and has recently attracted a large amount of research. In this paper we focus on clustering data derived from Autoregressive Moving Average (ARMA) models using k-means and k-medoids algorithms with the Euclidean distance between estimated model parameters. We justify our choice of clustering technique and distance metric by reproducing results obtained in related research. Our research aim is to assess the aff ...

Keywords: ARMA, clustering, time series

20 Research track posters: A generalized maximum entropy approach to bregman co-clustering and matrix approximation
Arindam Banerjee, Inderjit Dhillon, Joydeep Ghosh, Srujana Merugu, Dharmendra S. Modha
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on**

Knowledge discovery and data mining

Full text available: pdf(166.70 KB) Additional Information: full citation, abstract, references, index terms

Co-clustering is a powerful data mining technique with varied applications such as text clustering, microarray analysis and recommender systems. Recently, an information-theoretic co-clustering approach applicable to empirical joint probability distributions was proposed. In many situations, co-clustering of more general matrices is desired. In this paper, we present a substantially generalized co-clustering framework wherein any Bregman divergence can be used in the objective function, and vari ...

Keywords: Bregman divergences, co-clustering, matrix approximation

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21 Computing Euclidean maximum spanning trees
C. Monma, M. Paterson, S. Suri, F. Yao
January 1988 **Proceedings of the fourth annual symposium on Computational geometry**
Full text available: pdf(665.62 KB) Additional Information: full citation, abstract, references, citings, index terms

An algorithm is presented for finding a maximum-weight spanning tree of a set of n points in the Euclidean plane, where the weight of an edge (pi, pj) equals the Euclidean distance between the points pi and pj. The algorithm runs in time &Ogr; (n logn) and requires &Ogr; (n) space. If the points are vertices of a convex polygon (given in or ...

22 Spatial Database Clustering: Fast spatial clustering with different metrics and in the presence of obstacles
Vladimir Estivill-Castro, Ickjai Lee
November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**
Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, index terms

In many GIS settings, the Euclidean metric is not applicable as the model for distance between points. Other geometric models are needed in many practical scenarios, for which urban geography is a common example. Recently, Estivill-Castro and Lee [8] proposed an effective and efficient boundary-based clustering method overcoming drawbacks of traditional spatial clustering, but has a geometric focus. By factoring out the topological aspects of the method we obtain a generic boundary-based cluster ...

23 Polynomial-time approximation schemes for geometric min-sum median clustering
Rafail Ostrovsky, Yuval Rabani
March 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 2
Full text available: pdf(257.54 KB) Additional Information: full citation, abstract, references, citings, index terms

The Johnson--Lindenstrauss lemma states that *n* points in a high-dimensional Hilbert space can be embedded with small distortion of the distances into an *O*(log *n*) dimensional space by applying a random linear transformation. We show that similar (though weaker) properties hold for certain random linear transformations over the Hamming cube. We use these transformations to solve NP-hard clustering problems in the cube as well as in geometric settings.More specifically, ...

Keywords: Clustering, high-dimensional data, polynomial-time approximation schemes

24 Research track papers: A probabilistic framework for semi-supervised clustering
Sugato Basu, Mikhail Bilenko, Raymond J. Mooney
August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(187.51 KB) Additional Information: full citation, abstract, references, index terms

Unsupervised clustering can be significantly improved using supervision in the form of pairwise constraints, i.e., pairs of instances labeled as belonging to same or different clusters. In recent years, a number of algorithms have been proposed for enhancing clustering quality by employing such supervision. Such methods use the constraints to either modify the objective function, or to learn the distance measure. We propose a probabilistic model for semi-supervised clustering based on Hidden Mar ...

Keywords: distance metric learning, hidden Markov random fields, semi-supervised clustering

25 Research sessions: clustering: Clustering objects on a spatial network
Man Lung Yiu, Nikos Mamoulis
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(867.67 KB) Additional Information: full citation, abstract, references

Clustering is one of the most important analysis tasks in spatial databases. We study the problem of clustering objects, which lie on edges of a large weighted spatial network. The distance between two objects is defined by their shortest path distance over the network. Past algorithms are based on the Euclidean distance and cannot be applied for this setting. We propose variants of partitioning, density-based, and hierarchical methods. Their effectiveness and efficiency is evaluated for collect ...

26 Poster papers: Clustering seasonality patterns in the presence of errors
Mahesh Kumar, Nitin R. Patel, Jonathan Woo
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(734.23 KB) Additional Information: full citation, abstract, references, index terms

Clustering is a very well studied problem that attempts to group similar data points. Most traditional clustering algorithms assume that the data is provided without measurement error. Often, however, real world data sets have such errors and one can obtain estimates of these errors. We present a clustering method that incorporates information contained in these error estimates. We present a new distance function that is based on the distribution of errors in data. Using a Gaussian model for err ...

Keywords: Gaussian distribution, clustering, distance function, forecasting, product life cycle, seasonality, time-series

27 Data bubbles: quality preserving performance boosting for hierarchical clustering
Markus M. Breunig, Hans-Peter Kriegel, Peer Kröger, Jörg Sander
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2
Full text available: pdf(397.09 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we investigate how to scale hierarchical clustering methods (such as OPTICS) to extremely large databases by utilizing data compression methods (such as BIRCH or random sampling). We propose a three step procedure: 1) compress the data into suitable representative objects; 2) apply the hierarchical clustering algorithm only to these objects; 3) recover the clustering structure for the whole data set, based on the result for the compressed data. The key issue in this approach is ...

Keywords: clustering, data compression, database mining, sampling

28 Clustering in large graphs and matrices

P. Drineas, Alan Frieze, Ravi Kannan, Santosh Vempala, V. Vinay

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(927.53 KB) Additional Information: full citation, references, citings, index terms

29 Subquadratic approximation algorithms for clustering problems in high dimensional spaces

Allan Borodin, Rafail Ostrovsky, Yuval Rabani

May 1999 **Proceedings of the thirty-first annual ACM symposium on Theory of computing**

Full text available: pdf(699.16 KB) Additional Information: full citation, references, citings, index terms

30 A local search approximation algorithm for k-means clustering

Tapas Kanungo, David M. Mount, Nathan S. Netanyahu, Christine D. Piatko, Ruth Silverman, Angela Y. Wu

June 2002 **Proceedings of the eighteenth annual symposium on Computational geometry**

Full text available: pdf(161.86 KB) Additional Information: full citation, abstract, references, citings, index terms

In *k*-means clustering we are given a set of *n* data points in *d*-dimensional space R^d and an integer *k*, and the problem is to determine a set of *k* points in ÓC;^{d}, called *centers*, to minimize the mean squared distance from each data point to its nearest center. No exact polynomial-time algorithms are known for this problem. Although asymptotically efficient approximation algorithms exist, these algorithms are not practical due to t ...

Keywords: approximation algorithms, clustering, computational geometry, k-means, local search

31 Research sessions: data mining: Clustering by pattern similarity in large data sets

Haixun Wang, Wei Wang, Jiong Yang, Philip S. Yu

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, citings, index terms

Clustering is the process of grouping a set of objects into classes of *similar* objects. Although definitions of similarity vary from one clustering model to another, in most of these models the concept of similarity is based on distances, e.g., Euclidean distance or cosine distance. In other words, similar objects are required to have close values on at least a set of dimensions. In this paper, we explore a more general type of similarity. Under the pCluster

model we proposed, two objects ...

32 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

33 Applications of weighted Voronoi diagrams and randomization to variance-based k-clustering: (extended abstract)

Mary Inaba, Naoki Katoh, Hiroshi Imai

June 1994 **Proceedings of the tenth annual symposium on Computational geometry**

Full text available: pdf(760.37 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we consider thek-clustering problem for a set S of n points i=**xi** in thed-dimensional space with variance-based errors as clustering criteria, motivated from the color quantization problem of computing a color lookup table for frame buffer display. As the inter-cluster criterion to minimize, the sum on in ...

34 Clustering for edge-cost minimization (extended abstract)

Leonard J. Schulman

May 2000 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**

Full text available: pdf(920.13 KB) Additional Information: full citation, references, citings, index terms

35 Similarity Search: Effective nearest neighbor indexing with the euclidean metric

Sang-Wook Kim, Charu C. Aggarwal, Philip S. Yu

October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(2.18 MB) Additional Information: full citation, abstract, references, index terms

The nearest neighbor search is an important operation widely-used in multimedia databases. In higher dimensions, most of previous methods for nearest neighbor search become inefficient and require to compute nearest neighbor distances to a large fraction of points in the space. In this paper, we present a new approach for processing nearest neighbor search with the Euclidean metric, which searches over only a small subset of the original space. This approach effectively approximates clusters by ...

Keywords: Euclidean metric, high dimensional indexes, multimedia databases, nearest neighbor queries, similarity search

36 Approximation algorithms for the mobile piercing set problem with applications to clustering in ad-hoc networks
Hai Huang, Andréa W. Richa, Michael Segal
April 2004 **Mobile Networks and Applications**, Volume 9 Issue 2
Full text available: pdf(186.57 KB) Additional Information: full citation, abstract, references, index terms, review

The main contributions of this paper are two-fold. First, we present a simple, general framework for obtaining efficient constant-factor approximation algorithms for the mobile piercing set (MPS) problem on unit-disks for standard metrics in fixed dimension vector spaces. More specifically, we provide low constant approximations for $L1$ and $L\infty$ norms on a d-dimensional space, for any fixed $d > 0$, and for the $L2$ norm on tw ...

Keywords: distributed algorithms, wireless networks

37 Spatial Database Clustering: New methods for topological clustering and spatial access in object-oriented 3D databases
M. Breunig, A. B. Cremers, W. Müller, J. Siebeck
November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**
Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, index terms

The data handling component of today's geographical information systems still only considers the management of two-dimensional data. However, in the geosciences as well as in commercial planning fields there is an increasing need to manage large amounts of 2.5D- and 3D-data. On the one hand, mobile telephony providers require digital landform data to maintain overall communication service networks. On the other hand, geoscientists and engineers need 3D surface and solid data to research dynamic ...

Keywords: 3D, GeoToolKit, geo-database, spatial access algorithms, spatial clustering

38 Integrating constraints and metric learning in semi-supervised clustering
Mikhail Bilenko, Sugato Basu, Raymond J. Mooney
July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**
Full text available: pdf(236.62 KB) Additional Information: full citation, abstract, references, citings

Semi-supervised clustering employs a small amount of labeled data to aid unsupervised learning. Previous work in the area has utilized supervised data in one of two approaches: 1) constraint-based methods that guide the clustering algorithm towards a better grouping of the data, and 2) distance-function learning methods that adapt the underlying similarity metric used by the clustering algorithm. This paper provides new methods for the two approaches as well as presents a new semi-supervised clu ...

39 Session 7B: On coresets for k-means and k-median clustering
Sariel Har-Peled, Soham Mazumdar
June 2004 **Proceedings of the thirty-sixth annual ACM symposium on Theory of computing**
Full text available: pdf(223.26 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we show the existence of small coresets for the problems of computing k-median and k-means clustering for points in low dimension. In other words, we show that given a point set P in R^d, one can compute a weighted set $S \subseteq P$, of size $O(k \varepsilon^{-d} \log n)$, such that one can compute the k-median/means clustering on S instead of on P, and get an

(1+ε)-approximation. As a result, we improve the fastest known algorithms for (1+ε)-approximate k-means ...

Keywords: Coreset, clustering, k-means, k-median, streaming

40 Industry/government track posters: Programming the K-means clustering algorithm in SQL

Carlos Ordonez

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(157.05 KB) Additional Information: full citation, abstract, references, index terms

Using SQL has not been considered an efficient and feasible way to implement data mining algorithms. Although this is true for many data mining, machine learning and statistical algorithms, this work shows it is feasible to get an efficient SQL implementation of the well-known K-means clustering algorithm that can work on top of a relational DBMS. The article emphasizes both correctness and performance. From a correctness point of view the article explains how to compute Euclidean distance, near ...

Keywords: K-means, SQL, clustering

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41 The subresultant and clusters of close roots
Tateaki Sasaki
August 2003 **Proceedings of the 2003 international symposium on Symbolic and algebraic computation**
Full text available: pdf(274.18 KB) Additional Information: full citation, abstract, references, index terms

This paper investigates the subresultant of univariate polynomials from the viewpoint of close roots. First, we derive formulas which express the subresultant and its cofactors in the root-differences. Then, we consider the case that the given polynomials contain one or more clusters of mutually close roots of closeness ß. We derive formulas showing the dependences of the coefficients of subresultant and its cofactors on ß and the number of clusters. Finally, we determine the magnitude ...

42 Indexing large metric spaces for similarity search queries
Tolga Bozkaya, Meral Ozsoyoglu
September 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 3
Full text available: pdf(281.78 KB) Additional Information: full citation, abstract, references, citings, index terms, review

One of the common queries in many database applications is finding approximate matches to a given query item from a collection of data items. For example, given an image database, one may want to retrieve all images that are similar to a given query image. Distance-based index structures are proposed for applications where the distance computations between objects of the data domain are expensive (such as high-dimensional data) and the distance function is metric. In this paper we consider ...

43 Voronoi diagrams—a survey of a fundamental geometric data structure
Franz Aurenhammer
September 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 3
Full text available: pdf(5.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: cell complex, clustering, combinatorial complexity, convex hull, crystal structure, divide-and-conquer, geometric data structure, growth model, higher dimensional embedding, hyperplane arrangement, k-set, motion planning, neighbor searching, object modeling, plane-sweep, proximity, randomized insertion, spanning tree, triangulation

44 Efficient algorithms for geometric optimization
Pankaj K. Agarwal, Micha Sharir
December 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 4

Full text available: pdf(577.74 KB) Additional Information: full citation, abstract, references, citings, index terms

We review the recent progress in the design of efficient algorithms for various problems in geometric optimization. We present several techniques used to attack these problems, such as parametric searching, geometric alternatives to parametric searching, prune-and-search techniques for linear programming and related problems, and LP-type problems and their efficient solution. We then describe a wide range of applications of these and other techniques to numerous problems in geometric optim ...

Keywords: clustering, collision detection, linear programming, matrix searching, parametric searching, proximity problems, prune-and-search, randomized algorithms

45 Session 1: Approximation algorithms for the mobile piercing set problem with applications to clustering in ad-hoc networks
Hai Huang, Andréa W. Richa, Michael Segal
September 2002 **Proceedings of the 6th international workshop on Discrete algorithms and methods for mobile computing and communications**

Full text available: pdf(273.11 KB) Additional Information: full citation, abstract, references, citings, index terms

The main contributions of this paper are two-fold. First, we present a simple, general framework for obtaining efficient constant-factor approximation algorithms for the mobile piercing set (MPS) problem on unit-disks for standard metrics in fixed dimension vector spaces. More specifically, we provide low constant approximations for L1- and L∞-norms on a d-dimensional space, for any fixed $d > 0$, and for the L2-norm on 2- and 3-dimensional s ...

Keywords: approximation algorithms, clustering, distributed protocols, mobile ad-hoc networks, piercing set

46 The analysis of a simple k-means clustering algorithm
Tapas Kanungo, David M. Mount, Nathan S. Netanyahu, Christine Piatko, Ruth Silverman, Angela Y. Wu
May 2000 **Proceedings of the sixteenth annual symposium on Computational geometry**

Full text available: pdf(1.24 MB) Additional Information: full citation, references, citings, index terms

47 Incremental clustering and dynamic information retrieval
Moses Charikar, Chandra Chekuri, Tomás Feder, Rajeev Motwani
May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**

Full text available: pdf(1.58 MB) Additional Information: full citation, references, citings, index terms

48 Exact and approximation algorithms for clustering
Pankaj K. Agarwal, Cecilia M. Procopiuc
January 1998 **Proceedings of the ninth annual ACM-SIAM symposium on Discrete**

algorithms

Full text available: pdf(1.25 MB) Additional Information: full citation, references, citings, index terms

49 Routing and transport: Geometric spanner for routing in mobile networks

Jie Gao, Leonidas J. Guibas, John Hershberger, Li Zhang, An Zhu

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(275.36 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new routing graph, the Restricted Delaunay Graph (RDG), for ad hoc networks. Combined with a node clustering algorithm RDG can be used as an underlying graph for geographic routing protocols. This graph has the following attractive properties: (1) it is a planar graph; (2) between any two nodes there exists a path in the RDG whose length, whether measured in terms of topological or Euclidean distance, is only a constant times the optimum length possible; and (3) the graph can be mai ...

50 Distributional Scaling: An Algorithm for Structure-Preserving Embedding of Metric and Nonmetric Spaces

Michael Quist, Golan Yona

December 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available: pdf(508.39 KB) Additional Information: full citation, abstract, index terms

We present a novel approach for embedding general metric and nonmetric spaces into low-dimensional Euclidean spaces. As opposed to traditional multidimensional scaling techniques, which minimize the distortion of pairwise distances, our embedding algorithm seeks a low-dimensional representation of the data that preserves the structure (geometry) of the original data. The algorithm uses a hybrid criterion function that combines the pairwise distortion with what we call the geometric distortion. T ...

51 Similarity querying II: QCluster: relevance feedback using adaptive clustering for content-based image retrieval

Deok-Hwan Kim, Chin-Wan Chung

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: pdf(2.15 MB) Additional Information: full citation, abstract, references, citings, index terms

The learning-enhanced relevance feedback has been one of the most active research areas in content-based image retrieval in recent years. However, few methods using the relevance feedback are currently available to process relatively complex queries on large image databases. In the case of complex image queries, the feature space and the distance function of the user's perception are usually different from those of the system. This difference leads to the representation of a query with multiple ...

Keywords: classification, cluster-merging, content-based image retrieval, image database, relevance feedback

52 Clustering hypertext with applications to web searching

Dharmendra S. Modha, W. Scott Spangler

May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Full text available: pdf(300.31 KB) Additional Information: full citation, references, citings, index terms

Keywords: cluster annotation, feature combination, high-dimensional data, hyperlinks, sparse data, toric k-means algorithm, vector space model

53 Clustering and singular value decomposition for approximate indexing in high dimensional spaces

Alexander Thomasian, Vittorio Castelli, Chung-Sheng Li

November 1998 **Proceedings of the seventh international conference on Information and knowledge management**

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

54 KM-1 (knowledge management): clustering I: Using bi-modal alignment and clustering techniques for documents and speech thematic segmentations

Dalila Mekhaldi, Denis Lalanne, Rolf Ingold

November 2004 **Proceedings of the thirteenth ACM conference on Information and knowledge management**

Full text available: pdf(463.76 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe a new method for a simultaneous thematic segmentation of the meeting dialogs and the documents discussed or visible throughout the meeting. This bi-modal method is suitable for multimodal applications that are centered on documents, such as meetings and lectures, where documents can be aligned with meeting dialogs. Bringing into play this alignment, our bi-modal segmentation method first transforms its results into a set of nodes in a 2D graph space, where the two a ...

Keywords: k-means clustering, thematic alignment, thematic segmentation

55 Research sessions: clustering: Computing Clusters of Correlation Connected objects

Christian Böhm, Karin Kailing, Peer Kröger, Arthur Zimek

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Full text available: pdf(645.32 KB) Additional Information: full citation, abstract, references

The detection of correlations between different features in a set of feature vectors is a very important data mining task because correlation indicates a dependency between the features or some association of cause and effect between them. This association can be arbitrarily complex, i.e. one or more features might be dependent from a combination of several other features. Well-known methods like the principal components analysis (PCA) can perfectly find correlations which are global, linear, no ...

56 Paper session I: techniques: Multi-vector feature space based on pseudo-euclidean space and oblique basis for similarity searches of images

Yasuo Yamane

June 2004 **Proceedings of the 1st international workshop on Computer vision meets databases CVDB '04**

Full text available: pdf(746.64 KB) Additional Information: full citation, abstract, references, citings

Investigators have tried to increase the precision of similarity searches of images by using distance functions that reflect the similarity of features. When the quadratic-form distance is used, however, dissimilar images can be judged to be similar. We therefore propose that the similarity of images be evaluated using a measure of distance in a multi-vector feature space based on pseudo-Euclidean space and an oblique basis (MVPO). In this space an image is represented by a set of vectors each o ...

57 Flow Field Clustering via Algebraic Multigrid

M. Griebel, T. Preusser, M. Rumpf, M. A. Schweitzer, A. Telea
October 2004 **Proceedings of the conference on Visualization '04**

Full text available: pdf(775.74 KB) Additional Information: full citation, abstract

We present a novel multiscale approach for flow visualization. We define a local alignment tensor that encodes a measure for alignment to the direction of a given flow field. This tensor induces an anisotropic differential operator on the flow domain, which is discretized with a standard finite element technique. The entries of the corresponding stiffness matrix represent the anisotropically weighted couplings of adjacent nodes of the domain mesh. We use an algebraic multigrid algorithm to gener ...

Keywords: algebraic multigrid, multiscale visualization, flow visualization

58 Session 7B: Bypassing the embedding: algorithms for low dimensional metrics

Kunal Talwar
June 2004 **Proceedings of the thirty-sixth annual ACM symposium on Theory of computing**

Full text available: pdf(249.41 KB) Additional Information: full citation, abstract, references, index terms

The *doubling dimension* of a metric is the smallest k such that any ball of radius 2r can be covered using 2^k balls of radius r. This concept for abstract metrics has been proposed as a natural analog to the dimension of a Euclidean space. If we could embed metrics with low doubling dimension into low dimensional Euclidean spaces, they would inherit several algorithmic and structural properties of the Euclidean spaces. Unfortunately however, such a restriction on dimension does ...

Keywords: PTAS, TSP, distance labels, doubling metrics, routing schemes

59 Multimedia and visualization (MV): Similarity between Euclidean and cosine angle distance for nearest neighbor queries

Gang Qian, Shamik Sural, Yuelong Gu, Sakti Pramanik
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(878.42 KB) Additional Information: full citation, abstract, references

Understanding the relationship among different distance measures is helpful in choosing a proper one for a particular application. In this paper, we compare two commonly used distance measures in vector models, namely, Euclidean distance (EUD) and cosine angle distance (CAD), for nearest neighbor (NN) queries in high dimensional data spaces. Using theoretical analysis and experimental results, we show that the retrieval results based on EUD are similar to those based on CAD when dimension is hig ...

Keywords: Content based image retrieval, Cosine angle distance, Euclidean distance, Inter-feature normalization, vector model

60 Index-driven similarity search in metric spaces

Gisli R. Hjaltason, Hanan Samet
December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available: pdf(650.64 KB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search is a very important operation in multimedia databases and other database

applications involving complex objects, and involves finding objects in a data set *S* similar to a query object *q*, based on some similarity measure. In this article, we focus on methods for similarity search that make the general assumption that similarity is represented with a distance metric *d*. Existing methods for handling similarity search in this setting typically fall into one of ...

Keywords: Hiearchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

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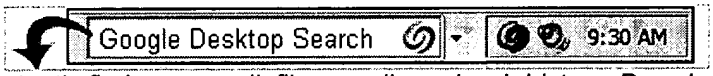
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[PS] Mathware and Soft Computing 1 (1994) 139-161 An Effective Way to ...
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2 Preliminary discussion 2.1 The **backpropagation** algorithm Let's ... R, from a bounded subset A of n-dimensional **Euclidean** space to a bounded subset f (A) ...
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A GUI implementation of **backpropagation** networks with five layers (32000 nodes per layer). ... **Cluster** Analysis is the tool to answer these questions. ...
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